

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): A resilient, polymeric fiber liner insulation, comprising:

a resilient insulation blanket core of polymeric fibers; the blanket core having a length and a width; the blanket core having first and second major surfaces defined by the length and width of the blanket; the blanket core having a thickness of about 0.5 inches or greater; the blanket core having a density between 1 pcf and 3 pcf; the polymeric fibers being between 60% and 90% by weight standard polymeric staple fibers and/or flame retardant polymeric staple fibers and between 10% and 40% by weight lofting and bonding polymeric fibers; the polymeric fibers having an average denier between 3 and 15; the polymeric fibers having an average length between 0.5 and 4.0 inches;

a surface layer coextensive and integral with the first major surface of the blanket core; the surface layer of the first major surface of the blanket core being a polymeric coating that has a dry application weight of between 8 and 20 g/m²; the surface layer being less permeable than the second major surface of the blanket core; and the surface layer having a permeability porosity between 200 and 1000 Mks Rayls that selected to provides the polymeric fiber liner insulation with a higher noise reduction coefficient than an identical polymeric fiber insulation blanket without the surface layer and that enhances the sound absorption properties of the liner insulation while maintaining a smooth surface to minimize locations where dust dirt particles, bacteria and mold can collect; and

the polymeric fiber liner insulation having a flame spread/smoke developed index of ≤ 25/50.

Claim 2 (canceled)

Claim 3 (original): The polymeric fiber liner insulation according to claim 1, wherein:

the polymeric fiber liner insulation, after being compressed to one third or less of an initial thickness of the polymeric fiber liner insulation, substantially recovers to the initial thickness when compressive forces are released.

Claim 4 (canceled)

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Claim-5 (currently amended): The polymeric fiber liner insulation according to claim-4 claim-1, wherein:

the polymeric coating is a multilayered polymeric coating.

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Claim-6 (currently amended): The polymeric fiber liner insulation according to claim-4 claim-1, wherein:

the polymeric coating is an acrylic coating.

9 (currently amended)
Claim-7. ✓ The resilient polymeric fiber liner insulation, comprising: according to claim 1, wherein:

a resilient insulation blanket core of polymeric fibers; the blanket core having a length and a width; the blanket core having first and second major surfaces defined by the length and width of the blanket; the blanket core having a thickness of about 0.5 inches or greater; the blanket core having a density between 1pcf and 3pcf; the polymeric fibers being between 60% and 90% by weight standard polymeric staple fibers and/or flame retardant polymeric staple fibers and between 10% and 40% by weight lofting and bonding polymeric fibers; the polymeric fibers having an average denier between 3 and 15; the polymeric fibers having an average length between 0.5 and 4.0 inches;

the polymeric fibers comprise including thermoplastic polymeric staple fibers that, at and adjacent the first major surface of the blanket core, have been melted and consolidated to form the a surface layer of on the first major surface of the blanket core that is coextensive and integral with the first major surface of the blanket core; the surface layer being less permeable than the second major surface of the blanket core; the surface layer having a porosity between 200 and 1000 Mks Rayls that provides the polymeric fiber liner insulation with a higher noise reduction coefficient than an identical polymeric fiber insulation blanket without the surface layer and that enhances the sound absorption properties of the liner insulation while maintaining a smooth surface to minimize locations where dust, dirt particles, bacteria and mold can collect; and

the polymeric fiber liner insulation having a flame spread/smoke developed index of ≤ 25/50.

Claim 8 (canceled)

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Claim 9 (original): The polymeric fiber liner insulation according to claim 7,
wherein:

the polymeric fiber liner insulation, after being compressed to one third or less of
an initial thickness of the polymeric fiber liner insulation, substantially recovers to the
initial thickness when compressive forces are released.

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Claim 10 (currently amended): The polymeric fiber liner insulation according to
claim 4, wherein:

the polymeric fibers comprise between 60% and 90% by weight standard
polyester staple fibers; and between 10% and 40% by weight sheathed polyester lofting
and bonding fibers.

Claim 11 (canceled)

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Claim 12 (original): The polymeric fiber liner insulation according to claim 10,
wherein:

the polymeric fiber liner insulation, after being compressed to one third or less of
an initial thickness of the polymeric fiber liner insulation, substantially recovers to the
initial thickness when compressive forces are released.

Claims 13 to 18 (canceled)

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Claim 19 (currently amended): The polymeric fiber liner insulation according to
claim 4, wherein:

the polymeric fibers comprise between 70% and 80% by weight standard
polymeric staple fibers and between 20% and 30% by weight lofting and bonding
polymeric fibers.

Claim 20 (canceled)

Claim 21¹ (original): The polymeric fiber liner insulation according to claim 19; wherein:

the polymeric fiber liner insulation, after being compressed to one third or less of an initial thickness of the polymeric fiber liner insulation, substantially recovers to the initial thickness when compressive forces are released.

Claims 22 to 27 (canceled)

Claim 28⁵ (currently amended): The polymeric fiber liner insulation according to claim 19¹, wherein:

the polymeric fibers comprise between 70% and 80% by weight standard polyester staple fibers; and between 20% and 30% by weight sheathed polyester lofting and bonding fibers.

Claim 29 (canceled)

Claim 30⁵ (original): The polymeric fiber liner insulation according to claim 28; wherein:

the polymeric fiber liner insulation, after being compressed to one third or less of an initial thickness of the polymeric fiber liner insulation, substantially recovers to the initial thickness when compressive forces are released.

Claim 31 (canceled)

Claim 32⁷ (currently amended): The polymeric fiber liner insulation according to claim 34⁶~~30~~, wherein:

the polymeric coating is a multilayered polymeric coating.

Claim 33⁸ (currently amended): The polymeric fiber liner insulation according to claim 34³², wherein:

the polymeric coating is an acrylic coating.

Claim 34 to 38 (canceled)